# CIVIL TECH LABS

Accredited by NABL as per ISO/ IEC 17025 : 2005

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

27th June 2015

Dear Sir,

**Sub:** Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

**For Civil Tech Labs,**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Quality Manager**

JE-II

# CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

### COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. K. R. Santhosh Kumar |
| **Grade of Concrete** | M-20 |
| **No. of cubes tested** | 3 |
| **Dimension of Specimen** | 150mmx150mmx150mm |
| **Cross Sectional Area** | 22500 mm² |
| **Technical Reference** | IS: 516-1959 (Reaffirmed 2013) |

| Sl. No. | Identification | Date of Casting | Date of Testing | Age at test (Days) | Weight (Kg) | Failure Load (KN) | Compressive Strength (N/mm²) | Avg Compressive Strength (N/mm²) |
|---|---|---|---|---|---|---|---|---|
| 1 | CC-Work (Pavement) | 30/05/2015 | 27/06/2015 | 28 | 8.18 | 470 | **20.89** | **21.33** |
| 2 | | | | | 8.20 | 495 | **22.00** | |
| 3 | | | | | 8.19 | 475 | **21.11** | |

**Note:**
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2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

17th June 2015

Dear Sir,

**Sub:** Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

**For Civil Tech Labs,**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Quality Manager**

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654


To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP.

15th May 2015

Dear Sir,

**Sub:** Testing of Materials.

As requested, the required tests were carried out for the materials the samples supplied by you, for the work of **'Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division'.**

Please find the enclosed Test Reports of the above.

**Thanking You,**
**For Civil Tech Labs**

Khushboo

CIVIL TECH LABS BANGALORE

**(KHUSHBOO L.)**
**Quality Manager**

JE-4

# CIVIL TECH LABS

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## TEST REPORT

## TEST ON CEMENT

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. K. R. Santhosh Kumar |
| **Date of Testing** | 15/05/2015 |

| **Tests** | **Test Method As Per IS & Apparatus** | | **Results** | | **Requirements As Per IS 8112:1989** | **Remarks** |
|---|---|---|---|---|---|---|
| | **IS Code** | **Method** | **Value** | **Unit** | | |
| Initial Setting Time | **IS-4031 (Part-5) 1988** | VICAT | 51 | min | Not Less Than 30 Minutes | Satisfies Requirement |
| Final Setting Time | **IS-4031 (Part-5) 1988** | VICAT | 491 | min | Not More Than 600 Minutes | Satisfies Requirement |
| Soundness | **IS-4031 (Part-3) 1988** | LE-CHATELIER | 5 | mm | Not More Than 10 mm | Satisfies Requirement |

**Note:**

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Lab Incharge
Civil Tech Labs

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# CIVIL TECH LABS

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## TEST REPORT

### TEST ON FINE AGGREGATES Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. K. R. Santhosh Kumar |
| **Date of Testing** | 15/05/2015 |
| **Specific Gravity** | **2.58** |

| **Sample** | **IS Sieve designation (mm)** | **Sieve Analysis (% Passing IS Sieve)** | **Grading Requirement as per IS:383-1970** | | | | **Grading Zone** |
|---|---|---|---|---|---|---|---|
| | | | **ZONE-I** | **ZONE-II** | **ZONE-III** | **ZONE-IV** | |
| **River Sand** | 10 | **100** | 100 | 100 | 100 | 100 | **II** |
| | 4.75 | **98.8** | 90-100 | 90-100 | 90-100 | 95-100 | |
| | 2.36 | **87.6** | 60-95 | 75-100 | 85-100 | 95-100 | |
| | 1.18 | **75.3** | 30-70 | 55-90 | 75-100 | 90-100 | |
| | 0.6 | **47.9** | 15-34 | 35-59 | 60-79 | 80-100 | |
| | 0.3 | **26.2** | 5-20 | 8-30 | 12-40 | 15-50 | |
| | 0.15 | **7.9** | 0-10 | 0-10 | 0-10 | 0-15 | |

**Note:**

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# TEST REPORT

## TEST ON FINE AGGREGATES Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. K. R. Santhosh Kumar |
| **Date of Testing** | 15/05/2015 |
| **Specific Gravity** | **2.58** |

| **Sample** | **IS Sieve designation (mm)** | **Sieve Analysis (% Passing IS Sieve)** | **Grading Requirement as per IS:383-1970** | | | | **Grading Zone** |
|---|---|---|---|---|---|---|---|
| | | | **ZONE-I** | **ZONE-II** | **ZONE-III** | **ZONE-IV** | |
| **River Sand** | 10 | **100** | 100 | 100 | 100 | 100 | **II** |
| | 4.75 | **98.8** | 90-100 | 90-100 | 90-100 | 95-100 | |
| | 2.36 | **87.6** | 60-95 | 75-100 | 85-100 | 95-100 | |
| | 1.18 | **75.3** | 30-70 | 55-90 | 75-100 | 90-100 | |
| | 0.6 | **47.9** | 15-34 | 35-59 | 60-79 | 80-100 | |
| | 0.3 | **26.2** | 5-20 | 8-30 | 12-40 | 15-50 | |
| | 0.15 | **7.9** | 0-10 | 0-10 | 0-10 | 0-15 | |

**Note:**

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## TEST REPORT

**TEST ON COARSE AGGREGATES 40mm ↓ Graded** Ref:IS:383/2386

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. K. R. Santhosh Kumar |
| **Date of Testing** | 15/05/2015 |
| **Specific Gravity** | **2.69** |
| **Water Absorption in %** | **0.29** |

| IS Sieve Designation (mm) | Sieve Analysis (% Passing IS Sieve) | Grading Requirement as per IS:383-1970 (Reaffirmed 2011) | Remarks |
|---|---|---|---|
| 80 | **100** | 100 | **Satisfies the requirement** |
| 40 | **99.2** | 95-100 | |
| 20 | **56.3** | 30-70 | |
| 10 | **25.8** | 10-35 | |
| 4.75 | **3.7** | 0-5 | |

**Note:**

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## TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. K. R. Santhosh Kumar |
| **Date of Testing** | 15/05/2015 |

| Sl.No. | Description | Result | IS 1786-2008 Min. Requirements | Remarks |
|---|---|---|---|---|
| 1 | Measured Diameter mm | 10 | 10 | Satisfactory |
| 2 | Wt/m Length (Kg/m) | 0.619 | 0.617 | Satisfactory |
| 3 | Bend & RebendTest | Pass | Should not Crack or Fracture | Satisfactory |
| 4 | Elongation (%) | 15.3 | 14.5 | Satisfactory |
| 5 | Yield Stress(N/Sq.mm) | 424 | 415 | Satisfactory |
| 6 | U T S (N/Sq.mm) | 530 | 485 | Satisfactory |

**Note:**

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## TEST REPORT

TEST ON REINFORCEMENT STEEL BAR 8mm

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Improvements toRoads and Providing Covering slab to Existing Drains in Ward no-11 (Kuvempunagara), Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. K. R. Santhosh Kumar |
| **Date of Testing** | 15/05/2015 |

| Sl.No. | Description | Result | IS 1786-2008 Min. Requirements | Remarks |
|---|---|---|---|---|
| 1 | Measured Diameter mm | 8 | 8 | Satisfactory |
| 2 | Wt/m Length (Kg/m) | 0.396 | 0.395 | Satisfactory |
| 3 | Bend & RebendTest | Pass | Should not Crack or Fracture | Satisfactory |
| 4 | Elongation (%) | 14.9 | 14.5 | Satisfactory |
| 5 | Yield Stress(N/mm²) | 420 | 415 | Satisfactory |
| 6 | U T S (N/mm²) | 525 | 485 | Satisfactory |

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